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CLAIMS

- A mobile transceiver having:
 a system for generation of position information and means for transmitting said position information.
- 2. The invention of Claim 1 wherein said system for generation of position information includes means for receiving a signal from a satellite.
- 3. The invention of Claim 2 wherein said system for generation of position information includes means for receiving a Global Positioning System signal.
 - 4. The invention of Claim 1 wherein said system for generation of position information includes means for receiving a signal from an airborne platform.
 - 5. The invention of Claim 1 wherein said means for transmitting said position information includes a CDMA transmitter.
 - 6. A base station having:
 - means for receiving position information from a remote unit and providing a received position signal in response thereto and
- 4 means for directing a beam in response to said received position signal.
- 7. The invention of Claim 6 wherein said position information is provided at least in part by a Global Positioning System.
 - 8. The invention of Claim 7 wherein said remote unit is a mobile transceiver.
- 9. The invention of Claim 8 wherein said mobile transceiver is a CDMA transceiver.

10. The invention of Claim 8 wherein said beam is directed to said transceiver.

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- 11. The invention of Claim 6 wherein said means for directing a beam includes a smart antenna. 2
- 12. The Invention of Claim 11 wherein said means for directing a beam includes an antenna array. 2
 - 13. The invention of Claim 12 further including means for driving said array to output a directed beam.
 - 14. The invention of Claim 13 wherein said means for driving includes a beamforming network.

15. A cellular communications system comprising:

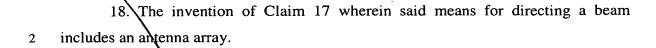
a mobile transceiver having:

a GPS system for generation of position information and means for transmitting said position information and a base station having:

means for receiving said position information and providing a received position signal in response thereta and

means located at said base station for directing a beam in response to said received position signal.

- 16. The invention of Claim 15 wherein said GPS system is GPS assisted.
- 17. The invention of Claim 15 wherein said means for directing a beam 2 includes a smart antenna.



- 19. The invention of Claim 18 further including means for driving said array to output a directed peam.
 - 20. The invention of Claim 19 wherein said means for driving includes a beamforming network.
 - 21. A method for effecting directional cellular communications including the steps of:

generating position information at a mobile transceiver;

4 transmitting said position information;

means for receiving said position information at a base station and providing a

6 received position signal in response thereto; and

directing a beam from said base station to said mobile transceiver in response

8 to said received position signal.

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